Listing of Claims:

What is claimed is:

1. (original) A method for determining fluid chemistry of formation fluid in earth formation surrounding a borehole, the method comprising:

storing analytical reagent in a reagent container coupled to a fluids analyzer via a flow-line in a formation tester;

transporting the formation tester downhole;

drawing formation fluid into the flow-line;

moving a mixture of formation fluid and analytical reagent through a spectral analyzer cell in the fluids analyzer; and

performing reagent injection spectral analysis on the mixture.

- 2. (original) A method according to claim 1, wherein performing reagent injection spectral analysis includes injecting reagent into formation fluid within the flow-line to create a mixture of formation fluid and reagent in the flow-line.
- 3. (original) A method according to claim 2, wherein injecting reagent includes injecting reagent using a syringe pump.
- 4. (original) A method according to claim 2, further comprising establishing and storing baseline optical density values for at least one wavelength prior to injecting reagent.
- 5. (original) A method according to claim 2, wherein injecting reagent includes injecting a predetermined volume of reagent.
- 6. (original) A method according to claim 5, further including adjusting the predetermined volume.
- 7. (original) A method according to claim 6, wherein adjusting the predetermined volume includes adjusting an injection period of time.
- 8. (original) A method according to claim 6, wherein adjusting the predetermined volume includes adjusting an injection pump rate.
- 9. (original) A method according to claim 5, wherein injecting reagent includes injecting reagent into a stopped formation fluid.

- 10. (original) A method according to claim 5, wherein injecting reagent includes injecting reagent into a flowing formation fluid.
- 11. (original) A method according to claim 2, wherein injecting reagent includes injecting reagent using wellbore overpressure.
- 12. (original) A method according to claim 11, wherein injecting reagent includes injecting reagent at a controlled rate using a restrictor.
- 13. (original) A method according to claim 11, wherein injecting reagent includes injecting reagent at a controlled rate using a throttle valve.
- 14. (original) A method according to claim 11, wherein injecting reagent includes injecting reagent for a controlled period of time.
- 15. (original) A method according to claim 2, wherein injecting reagent includes extracting formation fluid from a stopped flow-line.
- 16. (original) A method according to claim 15, wherein injecting reagent includes injecting a predetermined volume of reagent.
- 17. (original) A method according to claim 16, further including adjusting the predetermined volume.
- 18. (original) A method according to claim 17, wherein adjusting the predetermined volume includes setting an extraction pump rate.
- 19. (original) A method according to claim 17, wherein adjusting the predetermined volume includes setting an extraction time.
- 20. (original) A method according to claim 15, wherein extracting formation fluid includes using a syringe piston.
- 21. (original) A method according to claim 15, wherein extracting formation fluid includes using a flow-line pump.
- 22. (original) A method according to claim 15, wherein extracting formation fluid includes using a step piston.
- 23. (original) A method according to claim 22, wherein extracting formation fluid includes adjusting metering valve settings.

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24. (original) A method according to claim 1, wherein storing reagent includes storing different reagents in first and auxiliary reagent containers.

- 25. (withdrawn-previously presented) A fluids analyzer for analyzing formation fluid in earth formation surrounding a borehole, comprising:
 - a probe for receiving downhole formation fluid from earth formation.
 - a flow-line coupled to receive formation fluid downhole from said probe;
 - a reagent container in fluid communication with said flow-line;
 - spectral analyzer means, coupled to receive a mixture of formation fluid and reagent from said flow-line downhole, for analyzing said mixture to produce time-series spectral; and
 - computing means for determining a characteristic of formation fluid from said spectral_data.
- 26. (withdrawn) A fluids analyzer according to claim 25, wherein said reagent container is a syringe pump.
- 27. (withdrawn)A fluids analyzer according to claim 25, wherein reagent in said reagent container is exposed to wellbore pressure.
- 28. (withdrawn)A fluids analyzer according to claim 27, further comprising a syringe pump fluid container coupled to extract fluid from said flow-line.
- 29. (withdrawn)A fluids analyzer according to claim 27, wherein said reagent container is coupled to said flow-line by a restrictor.
- 30. (withdrawn)A fluids analyzer according to claim 27, wherein said reagent container is coupled to said flow-line by a throttle valve.
- 31. (withdrawn)A fluids analyzer according to claim 27, further comprising a step piston coupled to extract fluid from said flow-line.
- 32. (withdrawn)A fluids analyzer according to claim 31, further comprising a metering valve between said step piston and said flow-line.
- 33. (withdrawn)A fluids analyzer according to claim 25, further comprising an auxiliary reagent container in communication with said flow-line independently of a first reagent container.

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34. (cancelled)

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